

CLASSIFICATION SECRET

SECRET

CENTRAL INTELLIGENCE AGENCY REPORT

INFORMATION FROM
FOREIGN DOCUMENTS OR RADIO BROADCASTS CD NO.

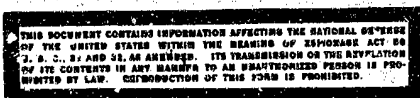
50X1-HUM

COUNTRY USSR
 SUBJECT Medical - Supplies
 HOW PUBLISHED Weekly newspaper
 WHERE PUBLISHED Moscow
 DATE PUBLISHED 6 Jul 1949
 LANGUAGE Russian

DATE OF
INFORMATION 1949

DATE DIST. // Aug 1949

NO. OF PAGES 2

SUPPLEMENT TO
REPORT NO.

THIS IS UNEVALUATED INFORMATION

SOURCE Meditsinskiy Rabotnik, No 27, 1949.CAPRONE LIGATURES IN SURGERY

I. Tal'man, Prof
 N. Okun', Cand of Med Sci

Synthetic caprone ligatures are chemically almost identical with natural animal ligatures. By a process of polymerizing certain known amino acid derivatives a highly polymerized hard plastic is obtained; technological processes insure sterility of the product.

The Leningrad Sanitation Hygienic Medical Institute began to use these synthetic fibers after a series of experiments on dogs and rabbits to determine the physicochemical properties of the caprone ligatures, and they proved to have many advantages. Among the advantages are greater durability than silk gut and absence of severe tissue reaction. Also, the fibrous capsules about the caprone ligatures are much thinner than those in silk gut, and they are easy to sterilize and do not dissolve in the tissues. They are not affected by ether, alcohol, or boiling as much as silk gut.

Scientists have been particularly interested in monolithic caprone ligatures. They absorb neither blood nor tissue fluids. Unfortunately, the knots made in fairly heavy monolithic ligatures will not hold satisfactorily. Series No 000, No 00, or No 0 are most frequently used in surgery. These series are as strong as thicker silk gut and have been used satisfactorily in plastic surgery. Caprone ligatures are thinner than horsehair, tear less easily, and cause less skin reaction. The only present requirement is to manufacture thin black caprone ligatures, as white ligatures are difficult to determine. The thinnest grade of caprone ligature has been used successfully by Prof P. Ye. Tikhonov in optic surgery.

The authors have used these caprone ligatures in some 200 cases. Several thoracotomic cases were sutured with No 3 ligatures. This caprone ligature has proven very satisfactory in such operations as strumectomy and stomach resection.

- 1 -

SECRET

CLASSIFICATION			SECRET									
STATE	<input checked="" type="checkbox"/> NAVY	<input checked="" type="checkbox"/> NSRB	DISTRIBUTION									
ARMY	<input checked="" type="checkbox"/> AIR	<input checked="" type="checkbox"/> FBI										

SECRET

SECRET

50X1-HUM

... report was submitted to the session of the Surgical Society ...
... Pirogov. It was so well accepted that the Ministry of Health USSR
... urged wider use of this ligature in surgical practice. The Main Adminis-
... tration for Apothecary Stores has been given the task of planning the pro-
... duction of caprone ligature.

- E N D -

- 2 -

SECRET

SECRET